

CLAIMS:

1. An image projection system comprising an illumination system for supplying an illumination beam, a modulation system for modulating said illumination beam in conformity with image information to be projected, and an optical system for projecting an image, said modulation system comprising at least one liquid crystalline image display panel having a first and a second polarizer between which a layer of TN (twisted nematic) liquid crystalline material is enclosed, characterized in that the image display panel comprises a single birefringence-compensating element between the layer and one of the two polarizers, which element has a tilted optical director profile whose projection in the plane of the polarizers encloses an angle ϕ different from 0 with the active rubbing direction of the layer.

2. An image projection system as claimed in claim 1, characterized in that the birefringence-compensating element is an element having a negative birefringence.

3. An image projection system as claimed in claim 1 ~~or 2~~, characterized in that $0^\circ < |\phi| \leq 15^\circ$.

4. An image projection system as claimed in claim 1, ~~2 or 3~~, characterized in that the element is present on that side of the liquid crystalline material where said material has its active rubbing direction.

5. An image projection system as claimed in claim 1, ~~2, 3 or 4~~, characterized in that the element comprises a negative birefringent foil having a tilted optical director profile.

6. An image projection system as claimed in claim 1, ~~2, 3 or 4~~, characterized in that the element comprises a plurality of positive birefringent foils, at least one of which has a tilted optical director profile.

7. A head-mounted display comprising a liquid crystalline image display panel, an optical system for imaging an image in an observer's eye, and head-supporting means, characterized in that the liquid crystalline display panel is implemented as the image display panel in the image projection system as claimed in claim ~~1 to 6~~.

8. A liquid crystalline image display panel for use in an image projection system, comprising a layer of TN (twisted nematic) liquid crystalline material which is enclosed between a first and a second polarizer, characterized in that the liquid crystalline image display panel is implemented as claimed in claim ~~1 to 6~~.

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